

WHAT IS CLAIMED IS:

- 1 1. A method for moving teeth, comprising:
  - 2 moving a first tooth; and
  - 3 moving a second tooth while isolating the first tooth at a rest position.
- 1 2. The method of claim 1, wherein the second tooth is moved for a first duration and  
2 immobilized for a second duration.
- 1 3. The method of claim 1, wherein the duration is on an hourly basis, a daily basis, or  
2 a weekly basis.
- 1 4. The method of claim 1, comprising generating a plurality of appliances based on  
2 the moving of the tooth, wherein the appliances comprise polymeric shells having  
3 cavities and wherein the cavities of successive shells have different geometries shaped to  
4 receive and resiliently reposition the teeth from one arrangement to a successive  
5 arrangement.
- 1 5. The method of claim 4, wherein a first cavity isolates the first tooth at the rest  
2 position.
- 1 6. The method of claim 4, wherein a second cavity urges the second tooth to one of  
2 the successive position.
- 1 7. The method of claim 4, wherein a second cavity urges the second tooth to one of  
2 the successive position.
- 1 8. The method of claim 4, further comprising replacing an appliance on an intra-day  
2 basis.

1 9. The method of claim 4, further comprising replacing an appliance on a daily  
2 basis.

1 10. The method of claim 4, further comprising replacing an appliance on a multi-day  
2 basis.

1 11. The method of claim 4, further comprising replacing an appliance on an intra-  
2 week basis.

1 12. The method of claim 4, further comprising replacing an appliance on a weekly  
2 basis.

1 13. The method of claim 1, further comprising:  
2 moving a first group of teeth; and  
3 moving a second group of teeth while isolating the first group of teeth at a rest position.

1 14. The method of claim 13, wherein each group comprises contiguous teeth.

1 15. The method of claim 13, wherein each group comprises non-contiguous teeth.

1 16. A system, comprising:  
2 means for moving a first tooth; and  
3 means for moving a second tooth while isolating the first tooth at a rest position.

1 17. The system of claim 16, wherein the second tooth is moved for a first duration and  
2 immobilized for a second duration.

1 18. The system of claim 16, wherein the duration is on an hourly basis, a daily basis,  
2 or a weekly basis.

1 19. The system of claim 16, comprising fabrication machine to generate a plurality of  
2 appliances, wherein the appliances comprise polymeric shells having cavities and  
3 wherein the cavities of successive shells have different geometries shaped to receive and  
4 resiliently reposition the teeth from one arrangement to a successive arrangement.

1 20. The system of claim 19, wherein a first cavity isolates the first tooth at the rest  
2 position and wherein a second cavity urges the second tooth to a successive arrangement.

1 21. A system for generating one or more appliances for a patient includes a processor;  
2 a display device coupled to the processor; a data storage device coupled to the processor;  
3 a scanner coupled to the processor for providing data to model the patient's masticatory  
4 system; means for moving a first tooth; means for moving a second tooth while isolating  
5 the first tooth at a rest position; and a dental appliance fabrication machine coupled to the  
6 processor for generating the appliances in accordance with the moved tooth and the  
7 isolated tooth.